DESCRIPTION

·With TO-220C package

·Complement to type BD896/898/900/902
·DARLINGTON

APPLICATIONS

·For use in output stages in audio equipment ,general amplifier,and analogue switching applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

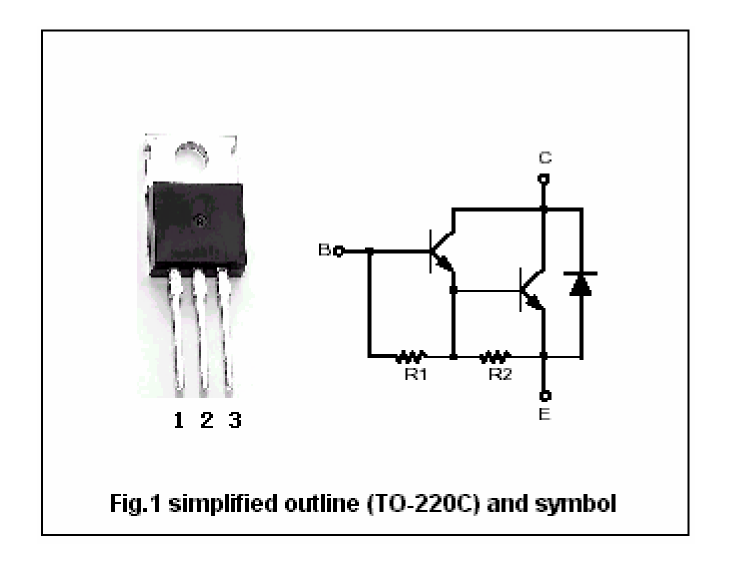


Fig.1 simplified outline (TO-220C) and symbol

Absolute maximum ratings(Ta=25□)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	BD895	Open emitter	45	V
		BD897		60	
		BD899		80	
		BD901		100	
V_{CEO}	Collector-emitter voltage	BD895	Open base	45	V
		BD897		60	
		BD899		80	
		BD901		100	
V_{EBO}	Emitter-base voltage		Open collector	5	V
I_C	Collector current-DC			8	A
I_B	Base current			300	mA
P_T	Total power dissipation		T_C=25□	70	W
			T_a=25□	2	
T_j	Junction temperature			150	□
T_{stg}	Storage temperature			-65~150	□

CHARACTERISTICS

Tj=25□ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	BD895	I_C=100mA, I_B=0	45			V
		BD897		60			
		BD899		80			
		BD901		100			
V_{CEsat}	Collector-emitter saturation voltage		I_C=3A ,I_B=12mA			2.5	V
V_{BE}	Base-emitter on voltage		I_C=3A ; V_{CE}=3V			2.5	V
I_{CBO}	Collector cut-off current	BD895	V_{CB}=45V, I_E=0 T_C=100□			0.2 2.0	mA
		BD897	V_{CB}=60V, I_E=0 T_C=100□			0.2 2.0	
		BD899	V_{CB}=80V, I_E=0 T_C=100□			0.2 2.0	
		BD901	V_{CB}=100V, I_E=0 T_C=100□			0.2 2.0	
I_{CEO}	Collector cut-off current	BD895	V_{CE}=30V, I_B=0			0.5	mA
		BD897	V_{CE}=30V, I_B=0				
		BD899	V_{CE}=40V, I_B=0				
		BD901	V_{CE}=50V, I_B=0				
I_{EBO}	Emitter cut-off current		V_{EB}=5V; I_C=0			2	mA
h_{FE}	DC current gain		I_C=3A ; V_{CE}=3V	750			
V_{EC}	Diode forward voltage		I_E=8A			3.5	V
t_{on}	Turn-on time		I_C=3A ; I_{B1}=-I_{B2}=12mA V_{BE}=-3.5V;R_L=10Ω;t_p=20μs		1		μs
t_{off}	Turn-off time				5		μs

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal resistance junction to case	1.79	□/W

PACKAGE OUTLINE

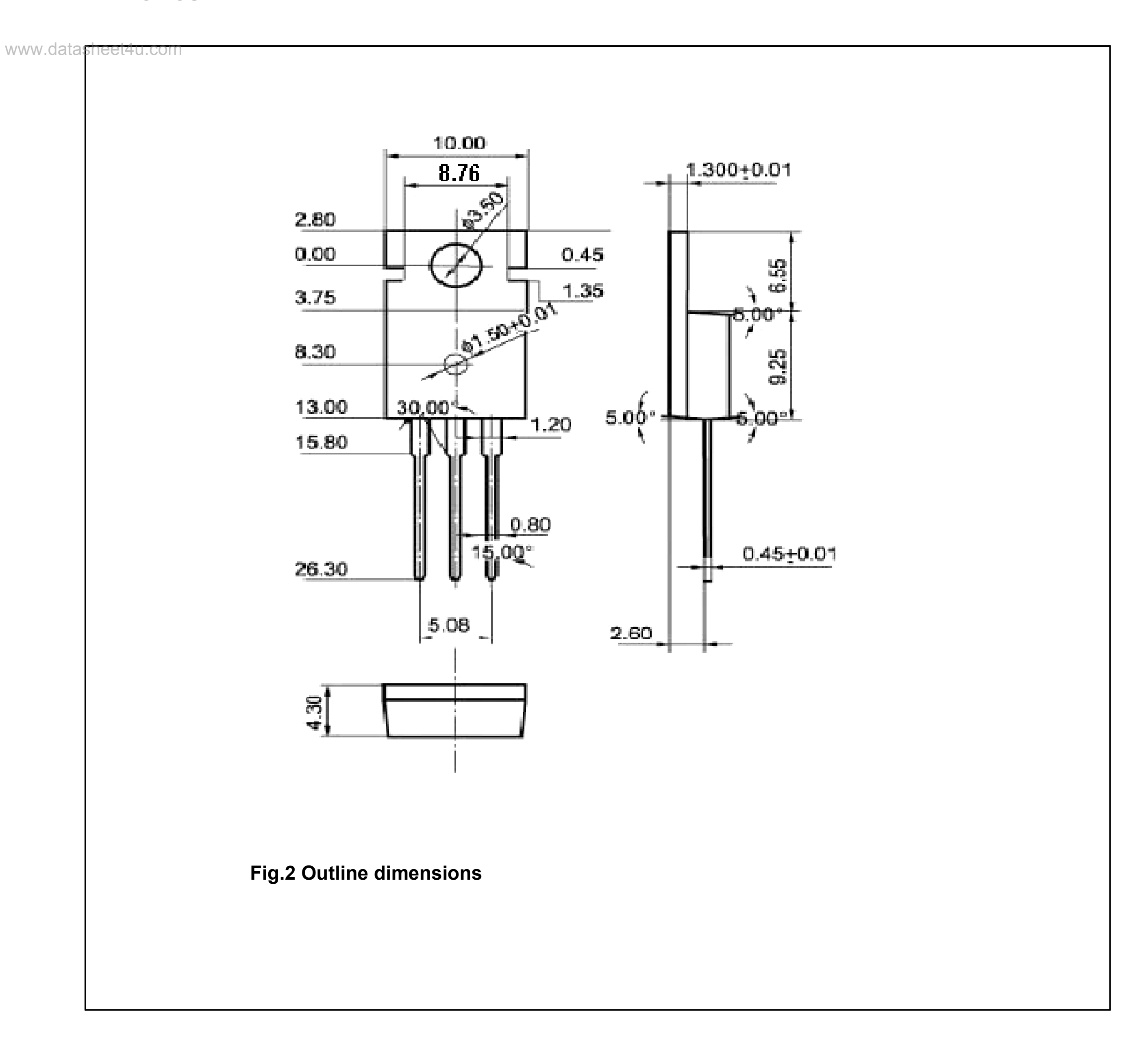


Fig.2 Outline dimensions